R. Hutson

Approved for use through 07/31/2006. OMB 0651-0031

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number. **Application Number** 10/034,621 Filing Date **TRANSMITTAL** First Named Inventor **FORM** 

December 21, 2001 Walter CALLEN et al. Art Unit 1652 (to be used for all correspondence after initial filing) **Examiner Name** 

Attorney Docket Number 24 564462001613 Total Number of Pages in This Submission

ENCLOSURES (Check all that apply)						
Fee Transmittal Form (1 page + duplicate)	Drawing(s)	After Allowance communication to Technology Center (TC)				
Fee Attached	Licensing-related Papers	Appeal Communication to Board of Appeals and Interferences				
X Amendment/Reply (17 pages)	Petition	Appeal Communication to TC (Appeal Notice, Brief, Reply Brief)				
After Final	Petition to Convert to a Provisional Application	Proprietary Information				
Affidavits/declaration(s)	Power of Attorney, Revocation Change of Correspondence Address	Status Letter				
Extension of Time Request	Terminal Disclaimer	Other Enclosure(s) (please Identify below):				
Express Abandonment Request	Request for Refund	Appendix A: polymerase sequence alignments (4 pages)				
Information Disclosure Statement	CD, Number of CD(s)	Return Receipt Postcard				
Certified Copy of Priority Document(s)						
Response to Missing Parts/ Incomplete Application	Remarks					
Response to Missing Parts under 37 CFR 1.52 or 1.53	Customer No. 45975					
SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT						
Firm or Individual name Gregory P. Einhorn - 38,440						
Signature J. Vinkon						
Date September 17, 2004						

	nce is being deposited with the U.S. Postal Service with sufficient postage as First Class Mail, in Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450, on the date shown
below.	
Dated: September 17, 2004	Signature: Moustan Signature: (Norman Green)

PTO/SB/17 (10-03)

Approved for use through 7/31/2006. OMB 0651-0032

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

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## **FEE TRANSMITTAL** for FY 2004

Effective 10/01/2003. Patent fees are subject to annual revision.

X Applicant claims small entity status. See 37 CFR 1.27 TOTAL AMOUNT OF PAYMENT (\$) 262.00

Complete if Known				
Application Number	10/034,621			
Filing Date	December 21, 2001			
First Named Inventor	Walter CALLEN et al.			
Examiner Name	R. Hutson			
Art Unit	1652			
Attomey Docket No.	564462001613			

METHOD OF PAYMENT (check all that apply)	FEE CALCULATION (continued)					
Crodit Manay	3. ADDITIONAL FEES					
Check Card Order Other None	3. Al	וווטט	ONAL	FEES		
X Deposit Account:						
Deposit		Entity	Small			
Account Number 03-1952	Fee Code	Fee (\$)	Fee Code	Fee (\$)	Fee Description	Fee Paid
	COUD	(4)	,	(4)		- Tee Palu
Deposit Account Morrison & Foerster LLP	1051	130	2051	65	Surcharge – late filing fee or oath	
Name		50	2052	25	Surcharge – late provisional filing fee or cover sheet.	
The Director is authorized to: (check all that apply)		400	4050	400		
X Charge fee(s) Indicated below X Credit any overpayments	1053	130	1053	130	Non-English specification	<b></b>
X Charge any additional fee(s) or any underpayment of fee(s)	1812	2,520	1812	2,520	For filing a request for ex parte reexamination	
Charge fee(s) indicated below, except for the filing fee		920°	1804	920*	Requesting publication of SIR prior to Examiner action	
to the above-identified deposit account.		1,840*	1805	1,840*	Requesting publication of SIR after Examiner action	
FEE CALCULATION	1251	110	2251	55	Extension for reply within first month	
1. BASIC FILING FEE	1252	420	2252	210	Extension for reply within second month	
Large Entity Small Entity	1253	950	2253	475	Extension for reply within third month	
Fee Fee Fee Fee Fee Paid Code (\$) Code (\$)	1254	1,480	2254	740	Extension for reply within fourth month	
1001 770 2001 385 Utility filing fee	1255	2,010	2255	1,005	Extension for reply within fifth month	
1002 340 2002 170 Design filing fee	1401	330	2401	165	Notice of Appeal	
1003 530 2003 265 Plant filing fee	1402	330	2402	165	Filing a brief in support of an appeal	
1004 770 2004 385 Reissue filing fee	1403	290	2403	145	Request for oral hearing	
1005 160 2005 80 Provisional filing fee	1451	1,510	1451	1,510	Petition to institute a public use proceeding	
SUBTOTAL (1) (\$) 0.00	1452	110	2452	55	Petition to revive – unavoidable	
SOBIOTAL (1) (\$) 0.00		1,330	2453	665	Petition to revive - unintentional	
2. EXTRA CLAIM FEES FOR UTILITY AND REISSUE	1501	1,330	2501	665	Utility issue fee (or reissue)	
Extra Fee from Claims below Fee Paid	1502	480	2502	240	Design issue fee	
Total Claims 44 -34** = 10 x 9 = 90.00	1503	640	2503	320	Plant issue fee	
Independent	1460	130	1460	130	Petitions to the Commissioner	
Multiple Dependent =	1807	50	1807	50	Processing fee under 37 CFR 1.17(q)	
Large Entity Small Entity	1806	180	1806	180	Submission of Information Disclosure Strnt	
Fee Fee Fee Code (\$) Fee Description	8021	40	8021	40	Recording each patent assignment per property (times number of properties)	
1202 18 2202 9 Claims in excess of 20	1809	770	2809	385	Filing a submission after final rejection	
1201 86 2201 43 Independent claims in excess of 3	1810	770	2810	385	(37 CFR 1.129(a)) For each additional invention to be	
1203 290 2203 145 Multiple dependent claim, if not paid					examined (37CFR 1.129(b))	<b> </b>
1204 86 2204 43 ** Reissue independent claims over original patent	1801	770	2801	385	Request for Continued Examination (RCE) Request for expedited examination	<b>——</b>
1205 18 2205 9 ** Reissue claims in excess of 20	1802	900	1802	900	of a design application	
and over original patent		ee (spe	cify)			
SUBTOTAL (2) (\$) 262.00	*Reduc	ced by 8	Basic Fil	ing Fee	Paid SUBTOTAL (3) (\$)	0.00
**or number previously paid, if greater, For Reissues, see above	L					
						-

SUBMITTED BY				(Complete (if applicable))	
^	lame (Print/Type)	Gregory P. Einhorn	Registration No. (Attorney/Agent) 38,440	Telephone (858) 720-5133	
s	Signature	12m 1.	mlon	Date September 17, 2004	

450, on the date shown below.

I hereby certify that this correspondence is being deposited with the U.S. Postal Service with sufficient postage as First Class Mail, in an envelope addressed to: MS RCE, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-

Dated: September 17, 2004 Signature:

Docket No.: 564462001613 (PATENT)

## IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Patent Application of: Walter CALLEN et al.

Art Unit: 1652

Filed: December 21, 2001

Application No.: 10/034,621

Examiner: R. Hutson

For: ENZYMES HAVING HIGH TEMPERATURE

POLYMERASE ACTIVITY AND METHODS

OF USE THEREOF

## SUPPLEMENTAL RESPONSE AND AMENDMENT

MS RCE Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

Dear Sir:

## INTRODUCTORY COMMENTS

This paper is in response to the Office Communication mailed September 02, 2004, and also supplements Applicants' RCE response of August 25, 2004, which was responsive to the Final Office Action mailed April 28, 2004. A response to the Office Communication of September 02, 2004, is initially due October 02, 2004. Accordingly, this paper is timely filed. Applicants respectfully request entry of the amendments and consideration of the remarks set forth herein.

Amendments to the Claims are reflected in the listing of claims which begins on page 3 of this paper.

Remarks/Arguments begin on page 11 of this paper.

The following documents are also enclosed herewith:

09/21/2004 CNGUYEN 00000100 031952 10034621

01 FC:2202 02 FC:2201

90.00 DA 172.00 DA

sd-220291

Application No.: 10/034,621 2 Docket No.: 564462001613

- Transmittal letter
- Fee Transmittal form
- Return receipt Postcard;
- Appendix A: polymerase sequence alignments (color copy).